(FILE 'HOME' ENTERED AT 11:48:25 ON 17 DEC 2002)

	FILE 'MEDLINE, BIOSIS, CAPLUS' ENTERED AT 11:48:34 ON 17 DEC 2002
L1	3494245 S NUCLEIC OR PROBE OR OLIGO? OR DNA OR RNA OR MRNA
L2	351466 S IMMOBILIZ? OR ARRAY OR MICROARRAY OR BIOCHIP
L3	104124 S CARBOXYL
L4	303 S L1 (P) L2 (P) L3
L5	159 DUP REM L4 (144 DUPLICATES REMOVED)
L6	13 S L5 AND (WATER OR AQUEOUS)

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L Number	Hits	Search Text		
1	166		DB	Time stamp
2	321	whisenant of wa an abicase A	USPAT	2002/12/17 10:34
4	101		USPAT	2002/12/17 10:35
-	101	I will be indicated and a will be indicated. XD. I and	USPAT	2002/12/17 10:35
5	٥	(array or biochip or microarray)		1
	·	(hydophobic)	USPAT	2002/12/17 10:35
6	56	will selidit - es. XD. / and	USPAT	2002/12/17 10:42
		(hydrophobic)	OSFAI	2002/12/1/ 10:42
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8	1	"9841531"	DERWENT	2002/12/17 10:42
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11	567041	negative or hydrophobic or hydrophilic	US-PGPUB	1
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13	9	Harray or migron bis 11	US-PGPUB	[
	,	((array or microarry or biochip) same	USPAT;	2002/12/17 10:46
12	149	carboxyl) same maleimide	US-PGPUB	
	143	(array or microarry or biochip) same	USPAT;	2002/12/17 11:39
14	68271	carboxyl	US-PGPUB	, ,
17	002/1	cysteine or "sodium dodecyl sulfate" or EPPS	USPAT;	2002/12/17 11:40
16	_	or "alkaline solution" or "hydrogen sulfate"	US-PGPUB	,,
10	1	(Cysteine or "sodium dodecyl sulfate" or	USPAT:	2002/12/17 11:40
		EPPS or "alkaline solution" or "hydrogen	US-PGPUB	2002/12/1/ 11:40
		sulfate") same (array or microarry or		
		blochip) same negative		
15	205	(cysteine or "sodium dodecyl sulfate" or	USPAT;	2002/12/17 11:42
		EPPS or "alkaline solution" or "hydrogen	US-PGPUB	2002/12/1/ 11:42
		sulfate") same (array or microarry or	05-FGF0B	
		biochip)		
17	33	(cysteine or "sodium dodecyl sulfate" or	HCDAM	
İ		EPPS or "alkaline solution" or "hydrogen	USPAT;	2002/12/17 11:42
ł		sulfate") near8 (array or microarry or	US-PGPUB	
1	İ	biochip)		
		biochip)		

ANSWER 8 OF 13 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: DOCUMENT NUMBER:

2000:260506 CAPLUS

132:289570

TITLE:

1.6

Substrate to be used for immobilization of DNA for the

preparation of DNA chips

INVENTOR(S):

Tanga, Michifumi; Takahashi, Kojiro

PATENT ASSIGNEE(S):

Toyo Kohan Co., Ltd., Japan

SOURCE:

PCT Int. Appl., 17 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

6

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE -------------------WO 2000022108 A1 20000420 WO 1999-JP5712 19991015 W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG A1 20000501 AU 1999-61238 A1 20010808 EP 1999-947929 AU 9961238 19991015 EP 1122309 19991015 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO

PRIORITY APPLN. INFO.:

JP 1998-293480 A 19981015 WO 1999-JP5712 W 19991015

AB Provided are substrates for immobilizing DNAs to present DNA libraries, which substrates are usable in replicating DNAs by DNA amplification reactions on chips. The substrates are selected from diamond contg. non-diamond carbon, amorphous carbon, plastic carbon, and graphite. Further, the surface or the substrates is modified by bonding with terminal hydroxyl groups or carboxyl groups. The carboxyl groups are bonded to the surface via ester or peptidyl linkage. The substrates improve the accuracy of temp. control and thus reduce the DNA contamination. In case of contamination, the surface of the substrates can be treated by hydrolysis reactions for recycling. Prepn. of a diamond disk contg. non-diamond C in gaseous phase by the microwave plasma CVD method, treatment of the disk with the microwave-excited oxygen plasma, and substitution with water vapor to obtain hydroxyl groups on the surface were described.

REFERENCE COUNT:

THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT